

**SUMMARY OF HYDROLOGIC CONDITIONS
IN THE
UPPER DELAWARE RIVER BASIN
January 2001**

Prepared by the
Office of the Delaware River Master
Milford, Pennsylvania

Adjusted streamflow in the upper Delaware River Basin during January was deficient. The maximum daily discharge of 4,680 cfs occurred on January 1. The minimum daily discharge was 1,800 cfs on January 29.

On the basis of a 5-station average, precipitation during January was 1.35 inches, which was 45 percent of the 60-year average. The maximum daily-average precipitation during January was 0.52 inches on January 31. Precipitation in the upper Delaware River Basin during the past 12 months was 3.67 inches greater than the long-term average. Precipitation during January was 1.67 inches less than the long-term average for the month.

The monthly mean streamflow of the Delaware River at Montague, N.J. during January was 2,712 cfs (observed), which was 53 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs was 3,126 cfs, or 71 percent of median (water years 1961-90).

Combined storage February 1, 2001, in Pepacton, Cannonsville, and Neversink Reservoirs was 84.4 percent of capacity above the point of maximum depletion. The combined storage of 229 billion gallons was 16 billion gallons less than that of one month ago and was 41 billion gallons more than that of one year ago. Median storage on the first day of February in 33 years of record is 214 billion gallons.

As part of a statewide network, the USGS operates 13 observation wells in the Pennsylvania part of the Delaware River Basin. Mean water levels during January were below average in 11 of the wells. Water levels in 8 of the wells were trending upward in comparison to December levels. Water levels in 11 of the wells were below January 2000 levels.

HYDROLOGIC CONDITIONS IN THE UPPER DELAWARE RIVER BASIN

Compiled by the Office of the Delaware River Master, Milford, Pa.

(Preliminary data - subject to revision)

PRECIPITATION, IN INCHES

	Dec. 1940 to Jan. 2000		February 2000 to January 2001					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Feb.	2.64	43.18	3.26	46.85	123	108	+.62	+3.67
Mar.	3.32	40.54	4.08	43.59	123	108	+.76	+3.05
Apr.	3.76	37.22	4.81	39.51	128	106	+1.05	+2.29
May	4.17	33.46	6.36	34.70	153	104	+2.19	+1.24
June	3.91	29.29	6.50	28.34	166	97	+2.59	-.95
July	4.09	25.38	4.24	21.84	104	86	+.15	-3.54
Aug.	3.86	21.29	3.60	17.60	93	83	-.26	-3.69
Sept.	3.83	17.43	3.53	14.00	92	80	-.30	-3.43
Oct.	3.39	13.60	2.41	10.47	71	77	-.98	-3.13
Nov.	3.85	10.21	2.50	8.06	65	79	-1.35	-2.15
Dec.	3.34	6.36	*4.21	5.56	126	87	+.87	-.80
Jan.	3.02	3.02	1.35	1.35	45	45	-1.67	-1.67

Note: Amount shown in cumulative columns is total from month shown to present.

* Revised since last month.

STREAMFLOW, IN CFS DELAWARE RIVER AT MONTAGUE, N.J.

Month	1940-99			2001 Monthly mean	Percent of median
	Maximum	Median	Minimum		
January (observed)	15,600 (1996)	5,116	1,318 (1981)	2,712	53
January (adjusted)	21,330 (1996)	5,939	1,064 (1981)	3,126	53
February (observed)	15,120 (1976)	5,468	1,748 (1980)		
February (adjusted)	20,330 (1981)	5,613	1,373 (1980)		

